

QUA • RAE

HERE IS NEWS OF RADIO ASSOCIATION OF ERIE

VOL. III NO. IX

OCT. - NOV. 1972

NEW MEMBERSHIP DRIVE BEGINS... JOIN NOW!!

THE RADIO ASSOCIATION OF ERIE, INC. ... SERVING AREA HAMS FOR 26 YEARS

The Radio Association of Erie, Inc.
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The QUA • RAE "ERIE'S FINEST AMATEUR NEWSBULLETIN BY FAR"

PREZ SEZ

It sure is hard to get back to the old grind after the fine vacation we had. Our entire family spent the month of July on a trailer trip to California and back. We worked several repeaters and listened to many more on our trip. The RAE can be proud of WA3KXD since it doesn't take a back-seat to any of the other repeaters I've heard. However, now that the new FCC rules are released, we will have to take a few additional steps to conform and re-apply for a WR call before July, 1973.

My Dad and I travelled as a caravan on the trip and communications were handled via CB. It was interesting to note that many of the infractions of the rules on CB have been cleaned-up on the West Coast. Seems the FCC filed action against large numbers of offenders and it has had the right affect.

I hope that the RAE has ratified the new by-laws by the time you receive this QUA-RAE. The new by-laws will permit us to be somewhat more flexible and put us on a calendar year basis for elections. We have had a fairly good turn-out at business meetings (about 20) but we would like to have more of you members take an active interest in your club. We will probably have an informal dinner together at Xmas on a "Dutch Treat" basis and maybe that will get the fellows out.

Meanwhile, CU on the Ham Bands.

(Signed) "BROWNIE", K3QAY

Editor's Note: The by-laws did pass and have now replaced the old ones. Refer to special mailing which should have reached you last month or write to WA3HSR, % Radio Association of Erie.

ELECTION OF BOARD OF DIRECTORS

The annual meeting for the election of Board of Directors will be held on Thursday, December 7, 1972, at the Red Cross Building. Those eligible for the Board are full members who are paid-up members of the ARRL, and who have served for one full year as a business officer. A full member is one who has attended at least four business meetings in this calendar year, and a business officer is either President, Secretary or Treasurer.

Petitions for nomination of directors are to be submitted not more than 30 days prior to the election and must be signed by at least five full members. You must be present at this meeting to vote. All members in attendance will be able to vote, but a quorum must exist. A quorum, as defined in the new by-laws, consists of 51% of the active full members. An active member is one who has attended at least three out of six of the previous monthly business meetings. (Our records indicate that about 11 of these active full members need to be present to constitute a quorum.)

Here's your chance to participate in the governing of your club. If, in the past, you have questioned the operation of the RAE, now is the time for you to voice your opinions. If you don't exercise this right, you have no reason to complain.

See you at the Red Cross Building on Thursday, December 7, 1972 at 8:00 PM.

Mike Hall/WA3HSR

SIMULTANEOUS EFFECTS

Simultaneous effects occur on the earth. This means that as soon as we see the flare, it begins to affect us in some ways. This can only be caused by energy travelling at the speed of light and reaching us at the same time we see the flare, or 8 minutes after it happened on the sun. The main simultaneous effect of the solar flare is the extra ionization of the D-region within the ionosphere. This is brought about by the sudden increase in Ultra-violet rays which increase the supply of free electrons in this region. The free electrons are released when molecular oxygen is separated into atoms by being excited by the Ultra-violet light. If the single oxygen atom is further excited, it will release a proton and an electron. This increased supply of free electrons brings about many types of Sudden Ionosphere Disturbances (S.I.D.'s) within the D-region between 37 - 56 miles high. Some of these are as follows:

Magnetic Crochet - Variations in supply of free electrons produces current changes within the E-layer of the ionosphere. Such changes are common diurnal changes with day and night. Flares increase free electrons and much more current flows in this layer producing sharp disturbances in magnetic fields and is recorded by observing stations.

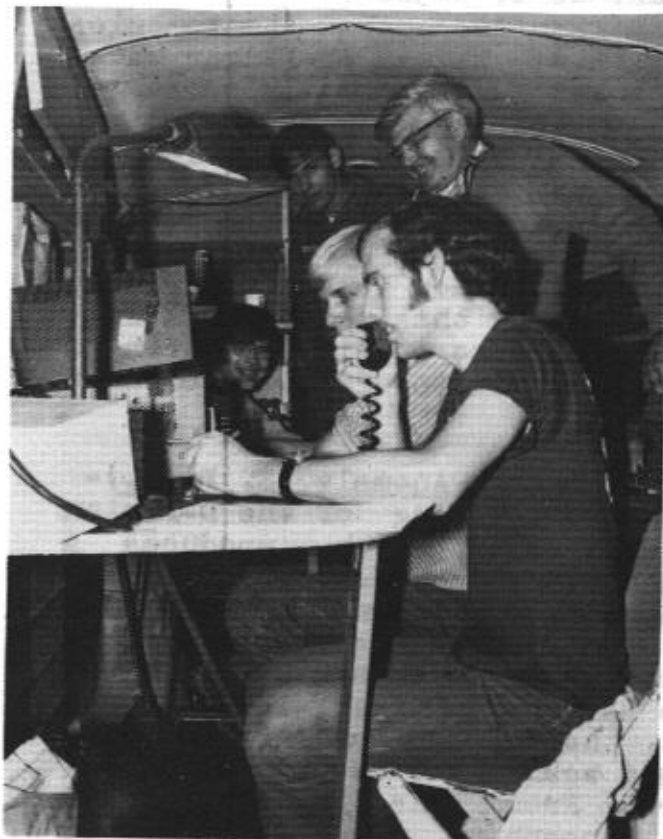
Short Wave Radio Fadeout (S. W. F.) - Short waves normally pass through the D-region towards the F-layer where they are reflected and propagated around the earth. With the increase in ionization in the D-region, the absorption of these shorter wavelengths becomes greater so they never reach the reflective F-layer. Thus, producing the fadeout and decline in propagation.

Sudden Enhancement of Atmospherics (S. E. A.) - Waves of longer wavelength which are normally absorbed are now reflected by the D-region, causing widespread propagation of the lower frequencies. The increase in free electrons makes the D-region more reflective to this radiation. Other waves normally reflected by this region will suddenly increase in signal strength with the addition of the free electrons.

Sudden Phase Anomaly (S. P. A.) - Effective lowering of the D-region of reflection which produces a phase change between the wave reflected and the ground wave if they are received at the same time at a distant point. When SIDs and flare were accurately timed, it was found that the peak effect of the SIDs lagged behind the observance of the flare. From this we gather that the ionosphere requires time to "build up" to its peak. All of the free electrons in the beginning are not left free for long, but react further making them neutral and cancelling their effect. Only after several minutes of constant abnormal bombardment, does the number of free electrons increase enough to allow for these disturbances.

Sudden Anomaly of Cosmic Noise (S. C. A.) - Short wavelength cosmic rays from space were faded out similar to manmade short wave radiation. In connection with this SID, it was discovered during the IGY (Int'l. Geophysical Year, 57 - 58), that the D-region was also absorbing a large amount of X-rays from the flares.

Radio Noise Burst - Along with the radiation Ultra-violet light, the flare also emits a certain amount of energy in the radio wavelengths. As it travels, it reaches us with the light from the flare and we observe a burst of energy on many frequencies simultaneously.



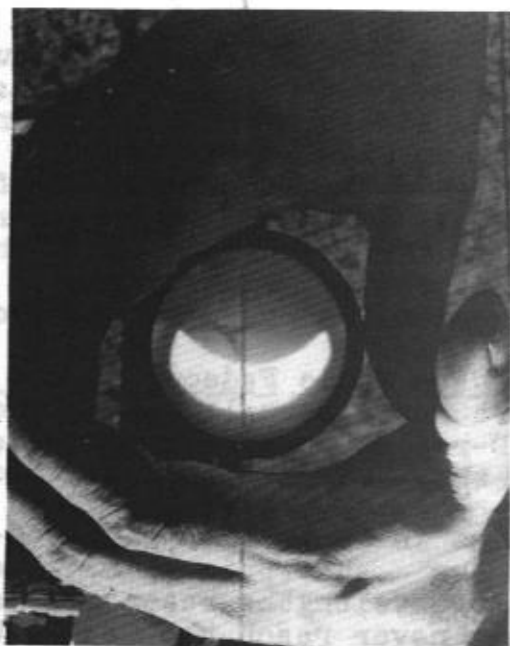
High scoring Field Day station. Operating out of the Comm Truck are, (L. to R.) Seated, VE3BIU Graham, WA3GUL Rick, WA3FFD Jim. Standing, WA3MKT Rick, WA3MAU Joe.



Flooding in PA and NY brings Chuck, W3ZLO, literally to his knees as he helps with emergency communications. He really does have a chair floating around there somewhere.



Bob, WA3HDK, during flood operations, assisted from his partially completed shack. He says when it is finished, all the wires will be hidden.



Recent Solar Eclipse seen through W3ZLO's back yard telescope.

--Photos by C. Bliley, K3NAU

BUSINESS MEETING MINUTES September 7, 1972

The meeting was called to order at 8:10 PM by K3QAY.

Officers present: K3QAY, W3ZLO, WA3HSR, and WA3EAY.

Directors present: K3VLP, W3SN, WA3HDK, WA3MAU, and WA3KAI.

A round of introductions was then held.

The August minutes were approved as read.

The Treasurer's balance was \$352.10.

A motion was approved to pay the impending bills for the month.

CORRESPONDENCE:

- 1) Bill from Valmarie Flower Shop for \$12.72.
- 2) Thank-you note from family of Bill Barczynski, K3UIK, who recently passed away.
- 3) A notification from FNB that the safety deposit box would be moved to their new facility soon.

COMMITTEES:

QUA-RAE - WA3HDK reported that a combined August/September issue was being typed and would be mailed within one week. Bob also submitted a bill for pictures of \$10.25. The new multilith was reported to be working well.

REPEATER - K3WTZ reported that receiver improvement was outstanding since the antenna was raised 15 feet higher. W3ZLO reported that the amplifier was finished and ready for testing. Bob then listed some new rules regarding repeaters recently passed by the FCC.

ACTIVITIES - W3ZLO reported that a location was being sought for a laser demonstration to be held on Saturday, September 23.

HAMFEST '73 - K3VLP moved, "that club approval be sought for 'WE3RIE' call issue for the 1973 Erie County Fair." The motion was approved. George also requested that the chair appoint a budget committee for 1973 to determine funds available for the Hamfest, but after discussion, the matter was tabled.

OLD BUSINESS:

K3WTZ reported that he had obtained an addressograph machine along with storage drawers and plates for \$15.00. K3VLP moved, "that the RAE reimburse K3WTZ the \$15 spent." This motion also approved.

K3VLP reported on the recent offer of a joint picnic with PARC. George reported that the offer to contribute \$25.00 to the picnic was turned down by the PARC Board of Directors.

NEW BUSINESS:

W3ZLO suggested that out-of-town repeater users be chosen at random and given a tour of the town during 1973 summer. After some discussion, the matter was tabled.

Continued on Page 15

TO ALL CW OPERATORS

Editor "A.R."

Dear Sir,

In this issue, you will find a report by me. Reference, a Commercial C.W. intruder station ordering a VK Amateur off the 14 Mhz. band. Does the underlined segment of that report incense you as much as it does I?

With the above in mind, I have considered forming a band of operators into what, for a better name, I intend calling "The QRM Brigade".

The object of this brigade would be to cause as much QRM as possible in a legitimate manner to these C.W. intruders. The intruders, under I.T.R. regulations, should not be operating in the sections of the bands under question, and, therefore, the Amateur operators would be quite within their rights to cause this QRM.

The exclusive Amateur bands are as follows: 28111 to 29700, 21000 to 21450, 14000 to 14250, and 7000 to 7100 kHz., and it would be deemed that the Commercials are causing QRM and not vice versa.

The idea is as follows: Competent C.W. operators to scan the bands, and when an intruder (or pair of intruders) is heard passing traffic, go zero beat that station and call "CQ". If another Amateur comes back to the CQ to conduct a QSO, zero beat with the intruder until he moves, and then follow him until he moves out of the band, or QRT. If nobody comes back to the CQ, to keep calling "CQ" until either of the above occurs.

This has been discussed with our authorities and the unofficial "green light" given so long as it is carried out on exclusive Amateur segments of the bands and Amateurs operate within their license requirements.

Are you interested in trying to rid our bands of this insidious Commercial interference? Will you be a member of the "QRM Brigade"?

A letter, or call on the air letting me know your feelings on the above would be appreciated.

Alf Chandler, VK3LC

NOTE: This letter appeared in the AMATEUR RADIO Magazine published in Great Britain and was contributed by one of our members.

SSB . . . Sale, Swap, Buy

FOR SALE: 41V xmtr. and pwr. supply strip less tubes - \$5.00. K3QHO 864-2544.

FOR SALE: 3/8" Vinyl Jacketed Heliax. 1.4 DB Loss/100 Ft. Priced just above RG-8 Foam. Chuck, K3NAU 866-1132.

FOR SALE: 115 V. Powerstat Max. output 3 Amps. \$7.50; 115 V. Powerstat Max. output 7.5 Amps. \$20; Vibroplex (like new) \$15; Spring mounted 10 mtr. Whip \$5; Solid Bumper Mount, 10 mtr. Whip \$2. W3LKJ 456-9545.

WANTED: Vibroplex Keyer. John Pindar, W3DKL, 454-2323.

NEW MEMBERS - 1973 MEMBERSHIP DRIVE
STARTED OCTOBER 1, 1972.

Homer Ellis, W3CB
166 Oakmont Street
North East Pennsylvania - 16428

Ralph J. Jordan, K4MY
1062 Whitewood Drive
Deltona, Florida - 32763

BUSINESS MEETING MINUTES September 19, 1972

The meeting was called to order at 8:20 PM by K3QAY.

All officers were present.

Directors present: W3SN, WA3HDK, K3VLP, and WA3MAU.

The purpose of this special meeting was to vote on the proposed new by-laws. K3QAY declared that a quorum existed.

K3VLP moved, "that the by-laws be accepted as they were presented to the membership." The motion passed unanimously.

WA3HDK moved for adjournment. This also passed and the meeting was adjourned at 8:24 PM.

(Signed) Michael D. Hall, WA3HSR,
Secretary, RAE

OCTOBER TRANSMITTER HUNT

The October transmitter hunt was marked by potholes, unfamiliar roads, and loosened exhaust systems as Rich, WA3LSY, and sidekick, Chris, WN3QVC, picked a remote spot atop a cliff off East Lake Rd. The hunters, Craig, K3PLV, and Mike, WA3HSR, both set out from westside locations about 20 minutes late. It seems Rich had a hard time getting his pick-up truck to the site! After losing Rich's carrier, both hunters headed east ... and east... and east until the tiny peanut whistle was spinning the needle near the General Electric Plant. With comments like trees, babbling brooks, and lights in the distance, Rich narrowed the range to a few miles of lake front property.

WA3HSR was the first in the vicinity. Mike turned into South Shore Village and drove around the area a few times. A conspicuous dirt road caught his attention and he tried to straddle the crevasses in it.

After bottoming out, Mike decided no "fool" in his right mind would drive over there. Soon after Mike left the quagmire, Rich reported he had seen some headlights a while ago, but they were now gone. Thoroughly confused, Mike continued to drive in circles, passing that dirt road everytime.

Craig, who had made his way from Kearsarge to the area, now followed HSR's tire tracks. Soon Craig found himself being followed by Mike and the drag race over the swamp began. Mike's hesitating to ford the canyon proved to be his undoing as he wound up following K3PLV to the hidden location which was precariously perched atop a 150 ft. cliff overlooking the lake.

This hunt proved to be loads of fun and it's too bad more mobiles didn't join in. On Nov. 19, Craig, K3PLV, will be hiding it "way out in the boonies." See you there!

Mike Hall, WA3HSR

NEW JERSEY STATE CHC CHAPTER 28
AWARDS

GARDEN STATE COUNTY - BASIC IS 10
COUNTIES, WITH SEALS FOR 7 AND 4 TO
COMPLETE ALL 21 COUNTIES. GCR LIST,
\$1.00 OR 10 IRC FOR THE BASIC. SASE
OR 1 IRC FOR SEALS. FREE TO B/P.
AVAILABLE TO SWL. NO DATE LIMITS.
3 COLOR.

ALASKA-CANADA-NEBRASKA CENTURY OF
PROGRESS - WORK A CITY OR TOWN
STARTING WITH EACH LETTER, REPEAT,
EACH LETTER OF ALASKA-CANADA-
NEBRASKA AND EACH TO BE IN A DIF-
FERENT COUNTY IN THE U.S.A., PLUS
ANY 5 N.J. COUNTIES. GCR LIST AND
\$1.00 OR 10 IRC. DX/KL/KH WORK ANY
OF NAMED 2 PLUS 3 N.J. COUNTIES.
AOMB/M. FREE TO B/P. 4 COLOR

DELAWARE-PENNSYLVANIA-NEW JERSEY -
DECEMBER 1787 - WORK STATIONS IN
DELAWARE, PENNSYLVANIA, NEW JERSEY
ONLY. BASIC IS CLASS G - 3
DELAWARE, 9 PENNSYLVANIA, 9 NEW
JERSEY; F - 15 DELAWARE; E - 21
PENNSYLVANIA; D - 21 NEW JERSEY;
- 15 ALL YLS IN THE 3 STATES; B -
NICKNAMES; A - CAPITALS. CLASS A
AND B WORK A TOWN OR CITY STARTING
WITH EACH LETTER OF NICKNAMES AND
CAPITALS; NICKNAMES ARE DIAMOND;
EYSTONE; GARDEN; CAPITALS ARE
OVER, HARRISBURG, TRENTON. DX/KL/
H/VHF EXCEPT W2 AND W3 WORK BUT
/3RDS THAT STATED. AOMB. FREE TO
B/P. AVAILABLE TO SWL. NO DATE
LIMITS. GCR LIST AND \$1.00 OR 10
IRC. ENDORSEMENTS SASE OR 1 IRC. 3
COLOR.

ACH MAY BE WORKED AGAIN WITH DIF-
FERENT CONTACTS FOR ANOTHER AWARD.

USTODIAN FOR ALL 3 AWARDS; Valerie
rgera - K2KQC - 187 Main Street,
amburg, N.Y. - 14075

ese 3 are all available from Val
ow. They are quite different from
e usual run of awards, all were
signed by me and cost quite a
ndle when we had them printed.

Results and compliments on them
made the effort worth while. Hope
some of the members can make them.

73's - Slim - WA2QPC

Contributed by WA3EZN

STRAYS

W3GV - RAE station needs only one
more continent (Oceania) for
WAC.

WA3LSY - Rick still going to Water-
ford looking for the hidden
transmitter.

WA3HDK - Bob has installed his tow-
er and is having a ball work-
ing 6-M. Why does Bob go to
"Carol's" after RAE meetings?

K3QHO - Jim's new house nearing
completion along with a 65 ft.
pole. New address: RD4 Ennis
Road, Erie, Pa. - 16509.

K3ZGG - Wendell recently seen being
pushed in a wheelchair in
downtown Erie.

WA3BBV - Steve has returned from
the hospital. Hope to hear
you on the air soon.

WA3TJR - Hoppy is sporting a new
tech ticket. Welcome to the
gang!

WA3TRJ - Barry has nice 6-M SSB
signal from Tidioute on the
weekend.

W3PIX - Dick bagged his turkey this
year. Don't know how he found
enough time from his 2M DXing.

BUSINESS MEETING MINUTESNovember 2, 1972

The meeting was called to order at 8:05 PM by K3QAY.

Officers present: K3QAY, WA3HSR, and WA3EAY.

Directors present: K3VLP, W3SN, WA3HDK, WA3KAI, and WA3MAU.

The minutes of the September meeting were approved as read. (There was no October meeting.)

The Treasurer's report indicated a balance of \$301.40.

CORRESPONDENCE:

- 1) New membership from W3CB.
- 2) Newsbulletins from WARA, CARS, PARC, and Repeater Bulletin.
- 3) Letter from Wayne Green, W2NSD.
- 4) Letter from P. Hawkins, WB8JUX, pertaining to 4 - 125A's available.

COMMITTEES:

QUA-RAE - WA3HDK indicated that he needed some help in writing the articles for this issue as many were never sent in. Bob hoped to have a combined October-November issue out within a week.

CD REPORT - WA3HSR reported on the Rat Patrol exercise for W3KPM. Mike reported that there was good co-operation on both ten and two meters. A total of 10 mobiles were patrolling the city and the use of EOC gave direct liason with the Erie Police. Mike also announced that the first meeting of the Mobile Activities Committee would be held at the EOC on November 16 at 8:00 PM.

REPEATER - K3QAY reported that attendance was good at the Textronics display that was recently held. Brownie also advised that two scheduled work parties were cancelled and that they would be re-scheduled at the upcoming repeater meeting.

ACTIVITIES - The following activities were listed by K3QAT:
December 15 - Xmas party at Sweden House in Eastway Plaza.
December 21 - Talk by Al Dolgosh, K8EUR of Antenna Specialists, Inc.

BOARD OF DIRECTORS - K3VLP reported that the Board has decided to plan activities for January and February, 1973, so the incoming activities Chairman would have ample time to plan for March. George also advised that the Board had appointed WA3HDK and WA3EAY to the Budget Committee and that K3QAY must appoint the third member.

OLD BUSINESS:

Upon question of K3VLP, WA3HSR advised that no letter had yet been received from Swan advising on the purchase of a mobile antenna for the COM Truck. Mike said he would write another letter.

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Special Bulletin 921, dated September 29, 1972, released results of FCC action on RML9162. In brief, most all phone bands will be increased effective November 22, 1972. (I have been unable to convince anyone to make hard copy of the bulletins so this information was copied from WIAW voice broadcasts.) No expansion of voice sub-bands was permitted on 20 - 15 or 10-meters, and no change was allowed in the extra CW portions. Novices lost their 2-meter privileges, but gained an extra segment on 10-meters. And, get this, novice crystal control requirements have been deleted.

Here is a tabulation of the new sub-bands:

BAND	GENERAL	ADVANCED*	EXTRA**	NOVICE
160	----- No Change -----			
80	3.890 - 4.000	3.800 - 3.890	3.775 - 3.800	3.700 - 3.750
40	7.225 - 7.300	7.150 - 7.225	Same as Adv.	7.100 - 7.150
20	14.275 - 14.350	14.200 - 14.275	Same as Adv.	None
15	21.350 - 21.450	21.270 - 21.350	21.250 - 21.270	21.100 - 21.200
10	28.500 - 29.700	-----Same as General-----		28.100 - 28.200
Others	-----No Change -----			

* Plus General Portions

** Plus General & Advanced Portions

Bob Bair, WA3HDK

REPEATER COMMITTEE MINUTESSeptember 14, 1972

The meeting was called to order at 20:08 by K3WTZ.
The minutes of the previous meeting were read and approved.

The Treasurer reported a new balance of \$209.58.

Beginning Balance	\$ 69.28
Receipts	+227.10
	296.38
Expenditures	- 86.80
Existing Balance	\$ 209.58

A round of introductions was held. Several Meadville area hams were present.

OLD BUSINESS:

K3QAY reported that the coax vertical for the xmtr. site has been completed. It is presently up at Brownie's QTH to attempt to measure gain.

K3QAY moved we buy 100 feet of RG-8 foam coax to put up the tower to test antennas at the receiver site. Voted and passed.

K3WTZ appointed K3QAY to purchase the coax.

K3WTZ reported that approximately 21 feet of pipe was purchased and the antenna at the receiver site was raised 16 to 17 feet above the top of the tower.

K3NAU reported that receiver coverage seems to be improved by raising the antenna. Tests using signal from VE3BIU indicate approximately 6 DB increase in signals from the north and improvement has been noted in signals from Meadville.

W3ZLO reported that the final amplifier for the xmtr. is complete and on the air testing will be performed at his QTH. Also, no problems have been experienced with the equipment at the xmtr. site.

K3WTZ reported no problems at receiver site either.

K3NAU submitted bills for a total of \$4.96 for receiver site materials. K3NAU moved we pay him \$4.96. Voted and passed.

K3NAU presented 3 - 4-125A's which were donated to the club.

K3QAY moved we give the 4-125A's to W3UCZ to replace tubes he donated to W3ZLO for use in the repeater. Voted and passed.

K3WTZ purchased various spare tubes for receiver site equipment with an anonymous \$50.00 donation.

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This year's Rat Patrol will certainly go down as one of the best Amateur Radio Emergency Corps' efforts in recent years. There were no records set for the number of participants on any band, but those who did participate were willing to follow the pre-planned instructions and their complete co-operation helped to make the 1972 Rat Patrol a success.

Both ten and two meter FM were utilized this year. Four mobiles on ten and six on two FM. Perhaps the most practical addition this year was the use of the Erie police radio at the County EOC. With the EOC serving as NCS on both bands, the police liaison gave amateurs a unique opportunity to send and receive direct reports from the police, with immediate announcement over the air to the prowling mobiles. As it turned out, the quiet night provided few times of using the police rig, but that's just what we were working for.

Amateurs manning the EOC NCS duties were Bing, WA3AWB; Tom, W3KPM; and Mike, WA3HSR. Fixed relay points on ten meters were filled by Frank, W3PAJ; and Lowell, K3VBF. Ten meter mobiles included Don, W3HLM; George, K3VLP; Craig, K3PLV; and Rick, WA3LSY, while two FM was staffed by Fred, W3UCZ; Brian W3USC; Bob, K3WTZ; Charlie, K3NAU; Ronnie, K3QAY; and Chuck, K3ATZ. The ever popular WA3KXD repeater was flawless again.

As EC for Erie County, I was pleased to see the good co-operation of local hams in providing the Erie area with a good communications web. Thanks to all of you who helped out. Something new, but long overdue in the Erie area, will get started on Thursday, November 16, 1972. The Mobile Activities Committee of the AE, in co-operation with the AREC, ACES, and Civil Defense will be

holding its organization and planning meeting at 8:00 PM at the Erie Co. EOC on Wagner Rd. All local amateurs interested in mobile and emergency communications and anyone interested in voicing opinions, ideas, and helping out is invited to attend. Purposes and goals of the committee will be established and an in-depth planning session for the January Simulated Emergency Test will be held. This coming SET should be one of the best in recent years for Erie area hams.

Mobile and emergency communications in Erie County need a boost, and with local co-operation it can happen -- just like the Rat Patrol. See you there!

Mike Hall, WA3HSR

DECEMBER ACTIVITIES MEETING - to be held on December 21, 1972.

Al Dolgosh, K8EUR of Ashtabula, Ohio and Antenna Specialists, Inc. will discuss the design, theory, advantages, and disadvantages of several types of amateur antennas. Al is well known for his designs of antennas for two meter FM. The meeting will get under way at 8:00 PM at the Naval Reserve Center on Old French Road.

Mike Hall, WA3HSR

RAE XMAS PARTY

An informal, Dutch treat, Christmas party will get under way around 6:30 PM on Friday, December 15, 1972 at the Sweden House located in the Eastway Plaza. Cost will be about \$2.25 per person for the delicious buffet style meal. All local hams are invited to join in the fun.

Mike Hall, WA3HSR

REPEATER COMMITTEE MINUTESOctober 12, 1972

The meeting was held at Holiday Inn South in order to give the members a chance to view the Tektronix equipment on display.

The meeting was called to order at 20:35 EST by K3WTZ.
The minutes of the previous meeting were read and approved.

The Treasurer reported a balance in the treasury of \$207.36.

OLD BUSINESS:

K3QAY reported problems measuring gain of new antenna that he built for rcvr. site.

K3WTZ explained how attempts were made to measure gain of the antenna.

K3QAY reported that he purchased the 100 feet of RG-8U coax and one connector for use with the new beam.

K3WTZ asked for volunteers to put up beam at rcvr. site and take measurements. K3QAY also pointed out that some work remained at the rcvr. site, such as putting up ceiling tile on inside of building and preparing the site for winter. It was decided to hold a work party at the rcvr. site on Sunday, October 15, and Sunday, October 22, to put up the beam and prepare for winter.

K3WTZ reported that W3ZLO will have the power amplifier ready to put on the air Saturday, October 14. The repeater will be off the air for a few days in order to make preparations for the amplifier.

K3NAU reported on repeater council meeting he attended in Grimsby, Ontario on September 21, 1972.

Much discussion of the council centered on frequency allocation.

Council recommended that all repeaters in the area be modified to operate .34 - .94 if an input signal is on .34 and use another frequency pair as the primary repeater frequency. They suggested Erie use .19 - .79 as our primary frequency as this is already assigned to us.

K3QAY moved we make a feasibility study to modify the WA3KXD repeater to operate .34 - .94 or .19 - .79 depending upon input signal.
Voted and passed.

K2JQT, Stan Jopek, suggested the possibility of command linking of WA3KXD and W2SB repeaters. The club should investigate including command linking to W2SB in block diagram in our new application to the FCC.

A vote was taken to link with W2SB at some time in the future on a command basis. Voted and passed.

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NEW BUSINESS:

K3WTZ outlined various points from the new repeater docket from the FCC.

WA3HSR suggested that someone repair a frayed power cord he noticed at the xmtr. site.

WA3AGM donated a 14AVQ vertical and ART-13 with power supply to the repeater committee.

K3NAU reported he had purchased a TPL xcvr. at Warren and he would sell it to the club for \$50 if they want it.

The offer was discussed and the club decided not to purchase at this time.

K3HWL reported on activities in Meadville. They are attempting to set up a repeater in Meadville. Some equipment has been procured. They are presently investigating frequency selection. Their immediate need is to raise money to get the project started.

K3NAU reported he is working on a repeater of his own. It is presently 146-04 - 146-64 but some interference problems have been experienced with WA3KXD because of a spurious response in the TPL rcvr.

K3NAU moved that WA3KXD repeater surrender the right (whether moral or otherwise) to the 146-19 Mhz. frequency for exclusive use as a primary input frequency for a second repeater in Erie, Pa. with an output frequency of 146-79 Mhz. within 30 days. Voted - motion denied.

K3NAU moved that WA3KXD attempt to eliminate spurious responses in TPL rcvr. Voted - tied.

K3WTZ stated that if spurious response could be eliminated without

making internal changes to the TPL rcvr., he would try to cure the problem. W3ZLO and K3NAU volunteered to help cure the problem.

WA3HSR moved we adjourn.

Adjourned at 22:06.

(Signed) James J. Fitzreiter, K3QHO
Repeater Committee Secretary

NEW BUSINESS:

K3QAY moved we reimburse K3NAU \$10 for expenses incurred on his trip to the repeater council meeting. Voted and passed.

K3ATZ suggested the club purchase a phone patch for use at one of the more active member's station so that phone patches could be made through the repeater. K3NAU offered to hook up his patch to his 2 meter rig.

K3WTZ returned \$3.20 to the treasury as change left over from the purchase of the pipe for the rcvr. antenna.

K3NAU moved the executive committee be directed to summarize expenses for the past year and plan expenses for the coming year and suggest a level of dues. Voted and passed.

K3WTZ appointed K3NAU chairman of the Rat Patrol for Halloween.

K3NAU suggested we should encourage people to monitor the repeater whenever they can because it is supposed to be monitored 24 hours a day.

WA3AWB moved we adjourn.

Adjourned at 22:15.

(Signed) James J. Fitzreiter, K3QHO
Repeater Committee Secretary

A vote was to be taken tonight on the approval of the new by-laws. The chair established that a quorum was present and voting could proceed. It was made known by W3SN that proper notice had not been given to the membership and the approval vote was delayed. Discussion and changes of the proposed by-laws was then held.

K3VLP moved that, "Article VII Section C, PPH 1 be replaced by, 'A quorum shall consist of 51% of the active members. An active member is one who has attended at least three out of six of the previous monthly business meetings.'" After discussion this was approved.

WA3HSR moved, "that Article II, Section A, be changed to read, 'Board of Seven Directors'." This was also approved.

W3NAU moved, "that Article VII Section A, PPH 2 be amended to read, 'Activity meetings shall be held periodically as determined by the activities Chairman'." This was also approved.

It was noted that a special Board meeting would have to be called to allow the Board to approve the amended version of the proposed by-laws. After this, a special membership meeting would be called with ample notice given to the membership.

WA3HDK moved, "that the RAE authorize the spending of \$6.00 for additional typing." This was also approved.

Motion for adjournment was heard 9:45 PM and was carried.

There were 20 members and 1 guest present.

(Signed) Michael D. Hall, WA3HSR
Secretary, RAE

NEW BUSINESS:

K3QAY appointed WA3HDK and K3VLP as Co-chairman of the 1973 RAE Auction which will be held on the first Saturday after Easter. Bob said that they will try and keep the same location, if possible.

WA3HDK reported that the old RAE multilith was still in his garage. After some discussion, K3VLP moved, "that WA3HDK be given permission to dismantle the RAE multilith and use the parts on his machine." The motion carried.

WA3HSR reported that his secretarial fund was overdrawn, and WA3HDK moved, "that the \$25.00 fund be replenished." This also carried.

There were 13 members and 2 guests present.

The meeting was adjourned at 9:20 PM.

(Signed) Michael D. Hall, WA3HSR
Secretary, RAE

THE FINAL FINAL

Been racking the 'ole brain for a good start for this month's final final. Mike, WA3HSR, suggested that I say, "This will be the last QUA-RAE --- unless you get in there and help." While I don't think we need be that dramatic, he could be right! It takes an awful lot of work to put together a 12-page newsletter each month. Not one of us can put in that much time. IT HAS TO BE A TEAM EFFORT. I can't write the paper, edit it and print it, too -- no, let's put it this way, I WON'T. If you want a good newsletter, you will have to contribute something.

Cont'd. on Pg. 16

We have had a few FAITHFUL helpers. Mike, WA3HSR, does more than his share of writing. Charlie, K3NAU, has helped much, but, is now, too, becoming tired. Brownie, K3QAY, is always first to turn in his article. K3QHO, Jim, gets his minutes in on time. Chuck, WA3KAI, knocks out artwork in nothing flat. Others too, have contributed articles from time-to-time, but these few people regularly contribute. Why not give 'em a pat on the back the next time you see them.

FRIDAY

LET'S TRY SOMETHING on ~~Thursday~~ evening, November 24. Anyone who is willing to help, meet me at the Red Cross Building at 8:00 PM. We will have a brain-storming session, sit down and write some, and formulate plans for doing the same thing every 4th Thursday of the month. That will fill every Thursday of the month with activities some of you should be interested in. (1st Thurs. Business Meeting; 2nd Thurs. Repeater; 3rd Thurs. Activity and 4th Thurs. Newsletter. We have the money! We have the facilities! We have the talent! How 'bout helping to prove that we have the ambition!

I intend to do very little editing of this newsletter because it would mean another trip back to Erie and another week's delay. The copy you are reading is just the way it came in and in no special order.

CORRECTIONS: A phone call from Charlie, K3NAU, just after last issue came out indicated his letter was to the ARRL and was printed in QUA-RAE to inform our members. By the way, Charlie wrote the K3UIK memorandum.

ELECTION: Don't forget that December 7 (1st Thurs.) is the meeting where we elect two new Board Members. Out going members are John Squire, K3UPC, and myself. I talked to John on the phone the other day and he told me his Boy Scout commitments prevented him from running for re-election. I, too, am going to be tied up working on a Master's Degree and spark-plugging the design and installation of the Pennsylvania Army Mars VHF Repeater system with my buddy, K3VMS. Have been trying to get a group together to research eligible calls. Requirements are: (1) Been past business officer (for at least one full term) and (2) member of ARRL. If you know of anyone who is eligible, or, if you are eligible, jot his name and call down and send to Board of Directors, RAE, Box 844, Erie, PA. 16512. If you can't write, call me, Mike Hall, or Bart Geer.

Procedure calls for quorum of about 10 - 12 (actual number is 51% of active members) members who regularly attend the business meetings to be there, BUT, all regular members may vote. The Board of Directors have 20 days in which to name the business officers, so don't expect to find out who the President, VP, Secretary and Treasurer will be that night.

The post of board member is an important one. Please take time to give your nomination and vote serious thought. Pick someone who is willing to spend some time working to further club interests. We don't need glory-boys who work only when it makes them look good. ASK your candidate if he is willing to work for us - you and me. If he says no - if he doesn't know - don't vote for him. Once he's in, get in there behind him and donate some time and talent, too! It's your club.

73's

Bob

Robert E. Bair, WA3HDK

• NOVEMBER 1972 •

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
5 NETS 6-10 METERS RSG 3 7MHz CONTEST PHONE	6	7	8	9 RAE REPEATER MEETING	10	11 ARRL SWEEPSTAKES "Phone"
12 NETS 6-10 METERS ARRL SWEEPSTAKES "Phone"	13	14	15	16	17	18 ARRL SWEEPSTAKES "CW"
19 NETS 6-10 METERS ARRL SWEEPSTAKES "CW"	20	21	22	23 NO MEET. Thanksgiving	24 (SEE P 16) NEWSLETTER MEETING R.C. - 8:00	25 CQ WORLDWIDE DX "CW"
26 NETS 6-10 METERS CQ WW DX "CW"	27	28	29	30		

• DECEMBER 1972 •

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					1	2 Lone Star QSO PARTY
3 NETS 6-10 METERS LONE STAR QSO PARTY	4 LONE STAR QSO PARTY	5	6	7 RAE BUSINESS MEETING "ELECTIONS"	8	9 ARRL 160 METER CONTEST
10 NETS 6-10 METERS ARRL 160 METER CONTEST	11	12	13	14 RAE REPEATER MEETING.	15 (SEE P 12) CHRISTMAS PARTY	16
17 NETS 6-10 METERS	18	19	20	21 (SEE P 12) ACTIVITY MEETING	22	23
24 NETS 6-10 METERS ARRL STRAIGHT KEY WITE	25 Christmas 	26	27	28	29	30

1973 MEMBERSHIP RENEWAL DRIVE BEGINS

It's membership renewal time again. Radio Association of Erie's dues are some of the lowest in the United States. The advantages are as many as you care to name.

Our members meet to conduct business the first Thursday of each month at 8:00 PM in the basement of the Red Cross Building, 150 West 6th Street. (Use the Sassasfras Entrance - Free Parking.) Refreshments consist of coffee, pop and donuts. Programs usually are presented on the third Thursday at the same location. Sometimes, programs meet other places. Watch the Sunday Times-News and QUA-RAE for announcements. The repeater committee meets the same place every second Thursday.

Radio Association of Erie encourages members to participate actively in its operation. Tell us what you want to see more of -- then help us get others interested in your ideas. Make your \$1.50 dues the "biggest little bargain" in America. Mail it today in the enclosed envelope.

Radio Association of Erie
Box 844
Erie, Pennsylvania - 16512

1973 MEMBERSHIP APPLICATION

NAME _____ CALL _____
ADDRESS _____ PHONE _____
_____ ZIP _____

DUES \$1.50 PER YEAR

ARE YOU A MEMBER OF ARRL? YES _____ NO _____

USE THIS SPACE (IF YOU WISH) TO TELL US WHAT YOU WOULD LIKE THE CLUB TO DO FOR YOU -- OR, WHAT YOU CAN DO FOR THE CLUB.

WHAT'S UR PLEASURE

WE WANT RAE TO BE YOUR CLUB. HOW ABOUT HELPING MAKE IT
MORE INTERESTING BY TAKING A FEW MINUTES TO TELL US WHAT YOU WANT
TO SEE MORE OF. FOLD AND TAPE OR STAPLE; THEN MAIL. SEE, ISN'T
THAT SIMPLE!

HAM OF THE MONTH BALLOT

I NOMINATE _____ FOR RAE'S
HAM OF THE MONTH. (PLEASE INDICATE BRIEFLY YOUR CANDIDATE'S CON-
TRIBUTION TO RADIO AMATEURS.) _____

YOUR NAME/CALL _____

----- FOLD HERE -----

RADIO ASSOCIATION OF ERIE
BOX 844
ERIE, PENNSYLVANIA - 16512

QUA-RAE

----- FOLD HERE -----